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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/487,239	01/20/2000	Norikane Nabata	Q57646	2929
75	90 06/09/2005		EXAMINER	
Sughrue Mion Macpeak & Seas PLLC 2100 Pennsylvania Avenue N W			VO. HAI	
Washington, Do			ART UNIT	PAPER NUMBER
			1771	

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	V			
	09/487,239	NABATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hai Vo	1771				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence address	4.6			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	I. I.136(a). In no event, however, may eply within the statutory minimum of the did will apply and will expire SIX (6) Multe, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	cation.			
Status		•				
1) Responsive to communication(s) filed on <u>05</u>	April 2005					
,						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 6 and 8-12 is/are pending in the appear of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 6 and 8-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	ne drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a li	ents have been received. Ints have been received in interiority documents have been received in the interior of the interior	Application No en received in this National Stage	8			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152)				

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1. The art rejections are maintained.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 6 and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dauber et al (US 5,538,545) in view of Takiguchi et al (US 5,804,074) substantially as set forth in the 11/04/2004 Office Action. The art rejections have been maintained for the following reasons. Applicants argue that it is improper for the examiner to ignore the teaching in Takiguchi that the two layers of the filter should be made of the same material. The examiner agrees. However, Applicants' attention is directed to the column 3, lines 35-45 of the Takiguchi reference. Takiguchi discloses a porous filter made of a thermoplastic material from which a porous body can be obtained by sintering such as polyethylene, e.g., ultrahigh molecular weight polyethylene (UHMWPE). It is clearly apparent that polyethylene and UHMWPE are equivalent thermoplastic materials from which a porous material of the plastic filter can be obtained by sintering. Hence, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute UHMWPE for the polyethylene of the Dauber invention since two compounds have been shown in the art to recognized equivalent thermoplastic resins from which a porous material of the plastic filter can be obtained by sintering.

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It is appreciated that Applicants have pointed out that the Dauber reference does not meet a pressure drop as disclosed in Applicants' specification. Applicants assert that such pressure drop is an overall unexpected result over the Dauber reference. The examiner disagrees. The pressure drop disclosed in Applicant's specification is an unexpected result over the conventional PTFE porous tube shown in a comparative example 1 of the present specification, but not the technical advantage over the cited Dauber reference. Therefore, the pressure drop limitations must be incorporated in the claims to provide any structural differences over the applied references. Similarly, the collection efficiency is not considered as an unexpected result over the applied references as argued by Applicants. It is recognized that Dauber discloses the collection efficiency at least of 55% at 0.3 μ m. However, Dauber does not disclose the collection efficiency cannot go up to 100% at 0.3 µm. Therefore, it is technically erroneous to conclude that the Dauber reference fails to meet the collection efficiency not less than 99.9995% at 0.1 to 0.2 μm. Therefore, the burden is shifted to Applicants to establish that the substitution of UHMWPE for the PE is not obvious by providing unexpected results to show that the change in materials is responsible for the result alleged to be unexpected and not some unclaimed physical feature such as mean pore size, porosity, etc. To the examiner, the material substitution has nothing to do with the pressure drop as well as the collection efficiency of the container. However, the pore size and porosity of the individual layers are recognized as the key elements to determine the pressure drop and collection efficiency of the container. It is suggested the pore size, porosity

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and pressure drop would need to be incorporated into the claims to provide any basis for holding Applicants' current showing persuasive or for establishing a structural distinction over the prior art.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on M,T,Th, F, 7:00-4:30 and on alternating Wednesdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hai Vo

HV